Annual DSD-201 PM Instructions DRAFT COPY

For use with PM kit P/N:

78399-880

XXXXX-XXX

Prior to performing the preventative maintenance:

- If possible, schedule this service so that it coincides with the replacement of the disinfectant.
- If the disinfectant is not dumped prior to the PM, purge the disinfectant lines prior to disassembling the machine:
  1. Disconnect the disinfectant filters.
  2. Attach the restrictor adapter in both basins.
  3. Begin on side A. Enter the diagnostics mode, **SETUP 88, ENTER, 135** and **ENTER**
  4. If software version 5.07 or above, press 0, ENTER. If lower level, proceed to step 5.
  5. Press **8, ENTER, 18 ENTER** and then **7, ENTER** to purge the disinfectant out of the pumps.
  6. Press **0, ENTER** to deactivate all components.
  7. Repeat steps 3 – 6 for side B. Press **14, ENTER** when complete with the steps for side B.
  8. Press **CANCEL** twice to exit Diagnostics.
  9. Start the flush cycle for both stations, then press **CANCEL** and **ENTER** key during the air purge of the flush cycle.
- Carefully read through the procedure prior to performing the PM.
- Precautions should be taken to prevent spillage of disinfectant when performing the PM. Personnel should wear the appropriate personal protective equipment when handling disinfectants.

Tools Required:

NOTE: This is a comprehensive list of all tools. Not all PM kits require all the tools listed. Please refer to the specific instructions for the PM kit purchased.

- 7/16 in nut driver, open end wrench or socket wrench
- 9/64-inch and 3/32-inch hex keys
- 5/16 nut driver
- Small Flat-bladed screw driver
- A set of "Philips" screw drivers
- 3/8 open end wrench or socket wrench

- Valve stem wrench for air actuated valves (Medivators P/N MW03-0002
- John Guest 47049-157
- Lint free cloth/rags.

Description of Action	Service Interval	
	6 Month	12 month
Check machine level	X	X
Inspect Endoscope hook ups for integrity	X	X
Inspect hydraulic and air fitting for integrity	X	X
Clean out the LCG Reservoir	X	X
Drain Air tank of sediment/liquid (Should be performed daily)	X	X
Inspect the gas springs for proper operations.	X	X
Inspect electrical connections for integrity	X	X
Clean the Active Vapor Management system (If equipped)	X	X
Verify proper temperature in basins and LCG reservoir	X	X
Review filters change logs. Change filters as required	X	X
Rebuild the ¾" drain valves		X
Replace the disinfectant pump head assembly		X
Replace the air-operated valve and solenoid seals		X
Replace the peristaltic pump tubing in alcohol and detergent pumps		X
Replace the eight check valves		X
Inspect Leak tester traps for liquid		X

PM kit parts content of P/N 78399-880		QTY
¾" Valve Rebuild kit	MK01-0029	6
Hydraulic Valve Seals	78398-538	3 (Kit of 4 seals)
Solenoid Valve Seal	MV01-0035	4
Peristaltic Pump Head Kit	MT01-0500	4
Disinfectant pump head kit	47049-193	2
Check valves	MK01-0068	8

PM kit parts content of P/N _____		QTY
¾" Valve Rebuild kit – FRONT	78400-323	4
¾" Valve Rebuild kit – BACK	78400-324	2
Hydraulic Valve Seals	78398-538	3 (Kit of 4 seals)
Solenoid Valve Seal	MV01-0035	4
Peristaltic Pump Head Kit	MT01-0500	4
Disinfectant pump head kit	47049-193	2
Check valves	MK01-0068	8

Preparation

1. Unplug the DSD-201 AC Power cord from wall outlet.
2. Close the external incoming water valve.
3. If equipped with external air supply, close the external air supply valve.
4. Bleed the 0.2-micron filter by opening the valve for a few seconds. Place a small container under the bleeder hose to collect the water.

1. LEVELING:

The disinfector must be installed on a level surface or be adjusted to level. The DSD-201 is susceptible to losses of fluids during the reprocessing cycles if not properly leveled. Depending on the level of the floor, a unit by simply being moved a few inches will become out of level.

The easiest and most accurate method of testing for level is to fill both basins with water until it reaches the lip around the top of the basin. Visually check that the water level is contacting the same point around the circumference of the basin. Refer to figure 1.

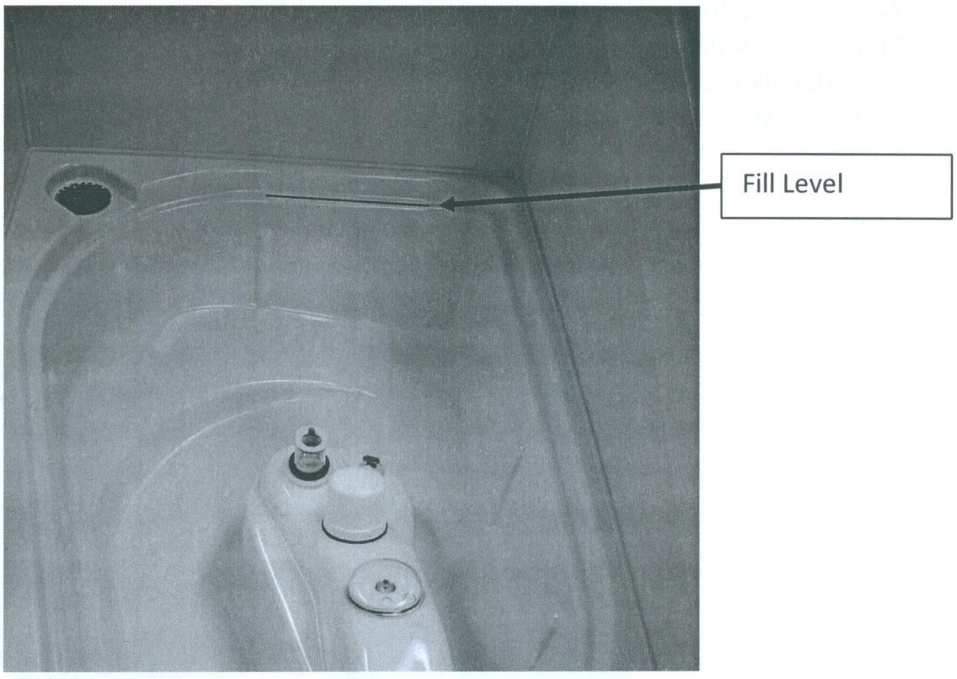


Figure 1 Level Fill Line

If the level is incorrect, adjust the leveling feet in the base of the unit in small increments until the level is correct.

1. Proceed with the following steps if adjustments from the rear side if the unit is necessary.
   a. Carefully slide the reservoirs forward enough to access the rear leveling pads (bolts).

2. Adjust the appropriate leveling pads until the (*Figure 1*) level fill lines shows that both basin "A" and "B" are level.
3. Verify the disinfector is level.
4. Ensure that the reservoirs are clean.
5. Slide the reservoirs back to the original positions.

1. 3/4 –inch valve maintenance procedure for PM Kit 783990-880

Parts Required

¾" Drain valve rebuild kit MK01-0029 Qty 6.

Tools Required

7/16-inch nut driver or socket or open ended wrench
Adjustable wrench or 1 1/8" deep well socket
Small flat blade screw driver
Silicon Grease

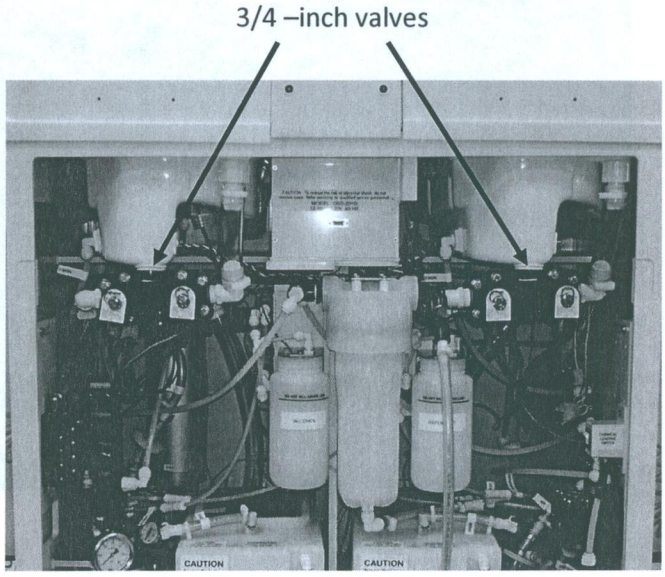


Figure 2 ¾-inch Valve locations

1. Using a small, flat bladed screwdriver, slide the solenoid-fasting clips off of the plunger post to remove the solenoids. Be careful not to lose the circular metal tension ring located between the valve body and the solenoid. The disinfectant overflow valves are located behind the other

valves. Identify all three solenoid valves to ensure they are returned to their specific locations after inspection.

2. Ensure that the endoscope basins are completely drained of all fluid. Place some rags underneath the ¾-inch valves in order to catch any remaining fluid that is trapped within the valves.
3. Using a 7/16-inch nut driver or socket wrench, loosen the four retaining bolts from the valve body of the drain valves (#11), disinfectant return valves (#10) and the disinfectant overflow valves(#9)

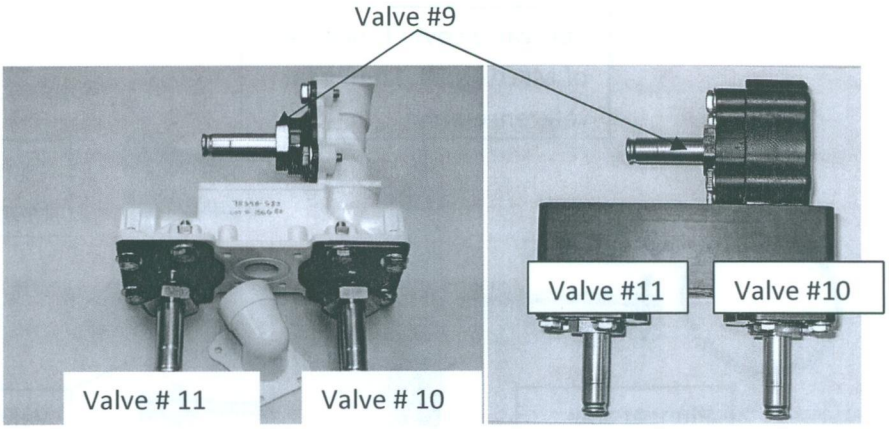


Fig 3 Two variations of ¾" manifold types

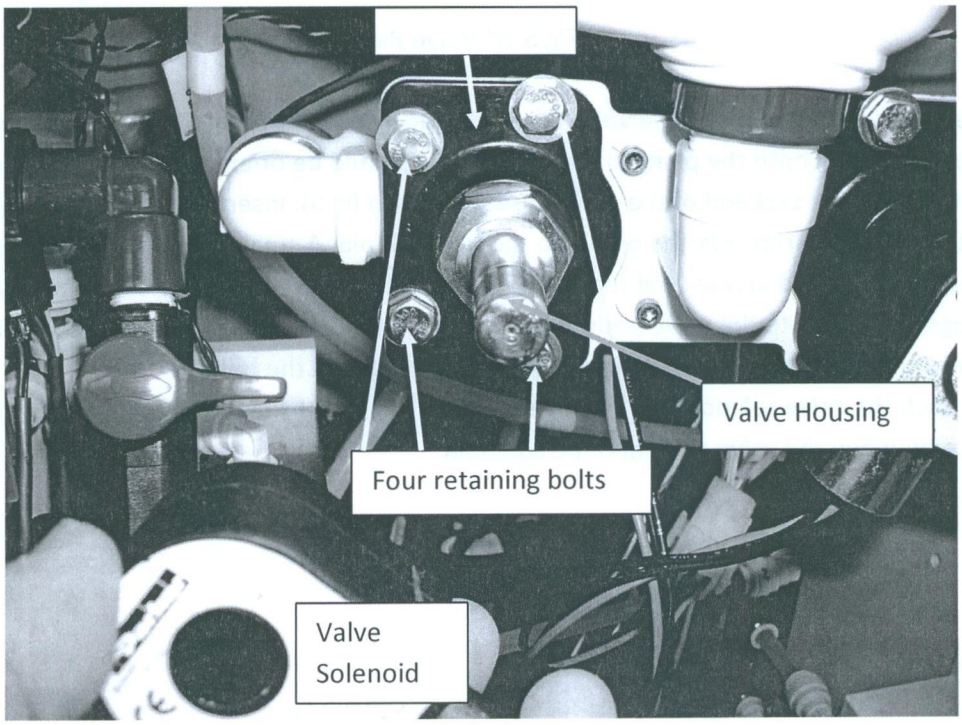


Fig 4 Coil removed from valve

4. Remove the plunger and spring from the valve housing. Remove the valve housing from the valve cover using an adjustable wrench or 1 1/8" deep well socket. Remove and discard the small O-ring between the valve housing and valve cover and the large O-ring between the valve cover and the manifold.
5. Using a lint-free cloth, wipe clean the valve housing to remove any debris (Especially around the circular valve seal seat.
6. Obtain one MK01-0029 ¾" valve rebuild kit.

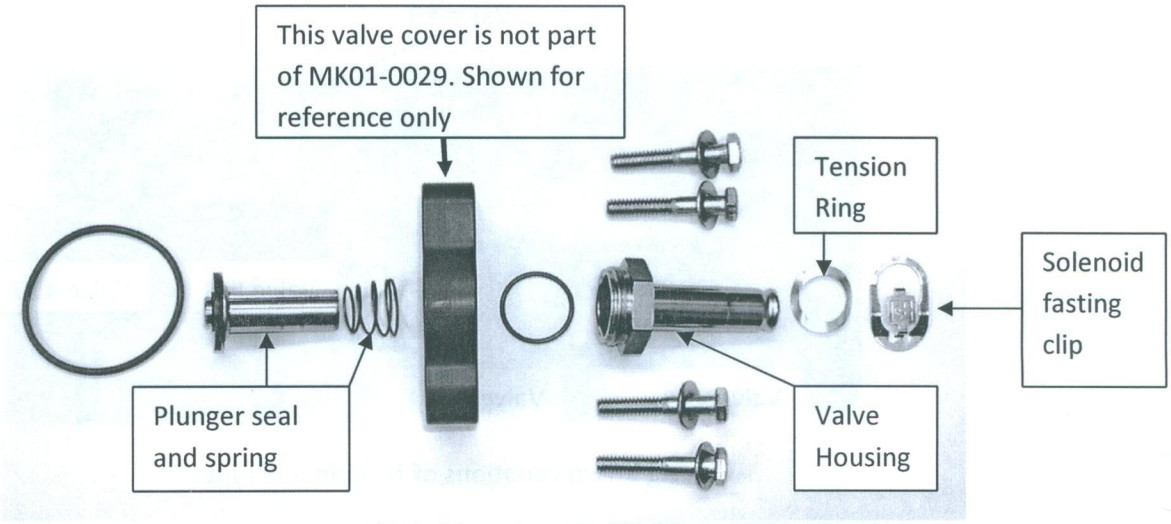

This valve cover is not part of MK01-0029. Shown for reference only
Tension Ring
Solenoid fasting clip
Plunger seal and spring
Valve Housing

Fig 5 ¾" Valve Rebuild kit

7. Insert the small O-ring into the valve cover. Reattach valve housing. Do not over tighten.
8. Place the spring onto the plunger seal. The spring should be orientated so the small end is in contact with the seal end of the plunger seal (refer to fig 5). Insert the plunger into the housing.
9. Place the large O-ring into the grove on the ¾" manifold. A small amount of silicone grease (p/n 17599-463) will aid in retaining the O-ring in place during reassembly. Reattach the valve plunger assembly to the valve body, ensuring the O-ring is in the groove (in place). Tighten the four retaining bolts to the valve body. Do not over-tighten the bolts.
10. Reattach the valve solenoid to the valve body ensuring that the metal circular retention ring is in place between the valve body and the solenoid.

2. 3/4 –inch valve maintenance procedure for PM Kit 783990-XXX

Parts Required

Tools Required

Medium flat blade screw drive
#2 Phillips screw driver
___Allen
___ Allen

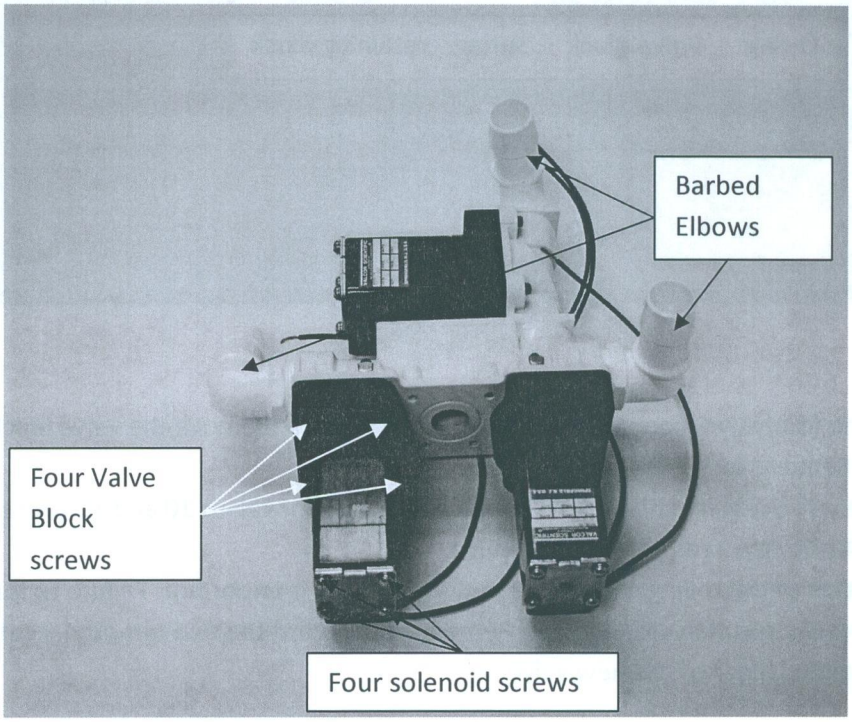


Fig 6 Current DSD-201 valve configuration

1. To rebuild the current version of the 3/4-inch drain valves is to remove the unit from the unit.
2. Loosen the three 1-inch hose clamps from the three 1-linch lines connecting to the valve manifold. Carefully slip the three hoses off the barbed elbows. Have a rag at the ready to catch any fluid that may remain in the manifold.
3. Disconnect the solenoid harness.
4. Remove the four screws with a _____Allen wrench. Support the manifold to prevent stripping of the threads.
5. Once assembly is removed, set on a counter service.

6. Remove the four solenoid screws at the end of the solenoid. Slowly pull back the solenoid for there is a spring inside. Set aside the solenoid for reuse. The spring will be replaced from one in the rebuild kit.

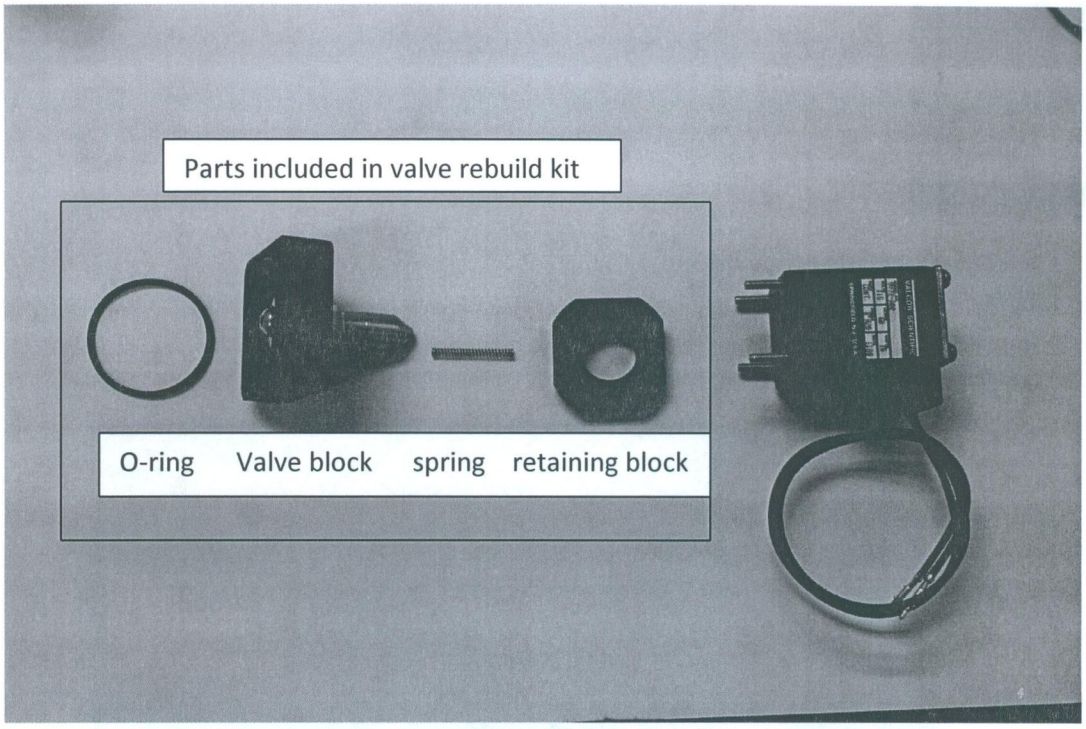


Fig 7

7. Remove the four valve block bolts using a __Allen wrench. Remove the valve block from the manifold. Remove the O-ring
8. Obtain the valve rebuild kits. 78400-323 (qty 2) is used for valves 10 and 11 (front valves) and 78400-324 is for the rear or number 9 valve.
9. A preparation of the rolling seal on the new valve block is important. Failure to follow instructions can result in valve failure. Remove and discard the two temporary retaining screws on the retaining block of the new valve.

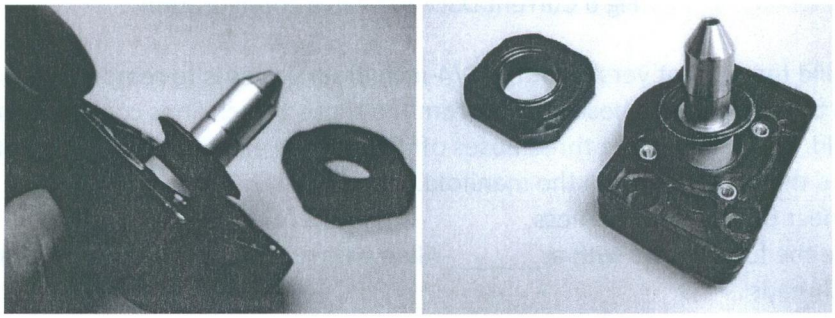


Fig 8

10. Pull the plunger out. See figure 9.
11. Pull down the rolling seal so it lies flat on the valve block See Figure ____
12. With the rolling seal in the proper position, place the retaining block over the base of the rolling seal.
13. Place the valve block on the manifold and reattach the four valve block screws. Do not over tighten.
14. Insert the new spring into the end of the plunger. Carefully place the solenoid over the plunger. Insert and tighten the four solenoid retaining screws.

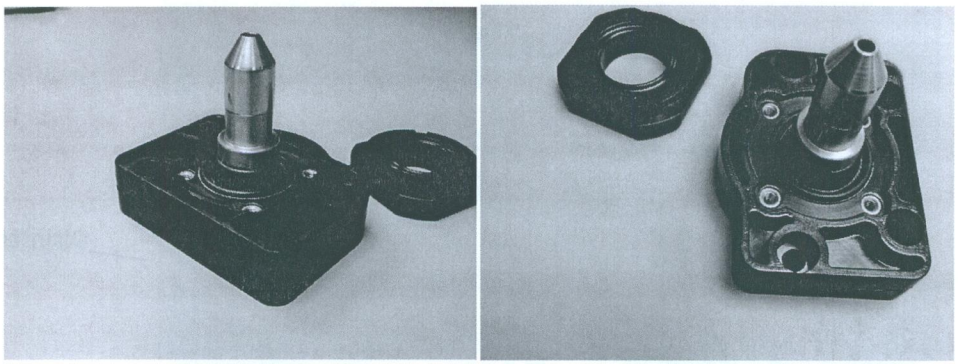


Fig 9

15. Repeat procedure of the other five valves.

4 Removal of HLD Tanks

Summary

To gain access to remove both A and B side main modules, the two HLD tanks must be removed.

Tools Required

John Guest tool 47049-157

Hydraulic

- Disconnect the water inlet hose from the bottom of the water filter. Refer to figure 6
- Remove disinfectant return tube from each HLD tank.
- Disconnect the disinfectant supply tube from each HLD tank.

Electrical

- Disconnect heater power harness from each HLD tank.

- Disconnect reservoir temperature probe from each HLD tank.
- Disconnect reservoir level switch from each HLD tank.

Mechanical

- If tanks are full, turn the overflow hose on the front of the tank so it is facing up. This will reduce the chance of spillage.
- Slide each HLD tank out of the unit.

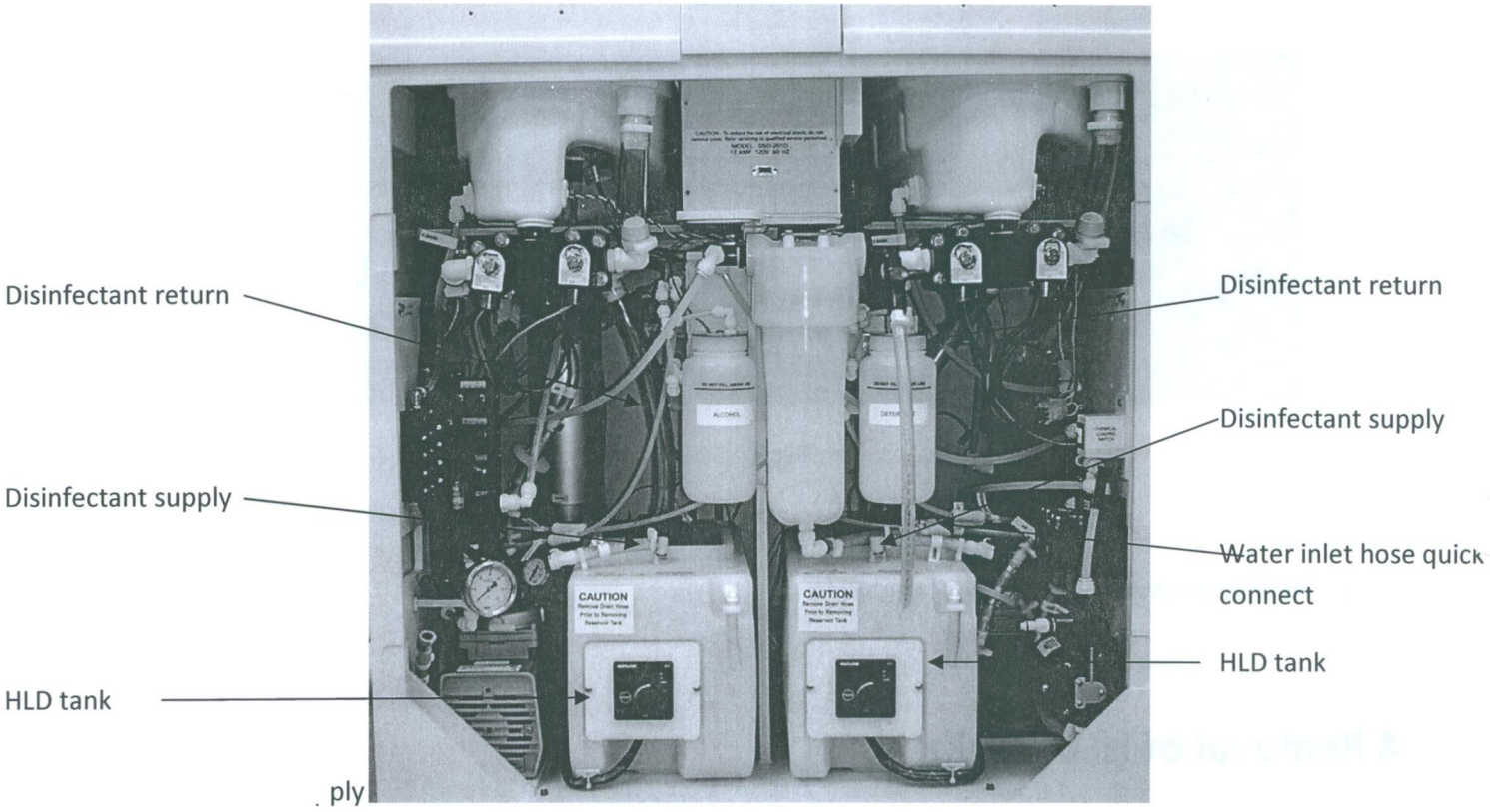


Fig 10

5 Removal of the A side Module

Preparation

- Bleed the air tank by pulling on the pressure relief ring located on the bottom of the air tank assembly

Hydraulic

- Disconnect the 3/8" air line at the A side 4 station Mac valve manifold. Refer to figure 11.
- Disconnect the 3/8" tube from the A side flow switch.

- Disconnect the 3/8" tube at the water valve inlet if A side valve manifold.
- Disconnect the 3/8" tube at the chamber valve inlet of A side manifold.
- Disconnect the check valve of the A side alcohol line, leaving the check valve with the alcohol reservoir side of the break. Refer to figure 11.
- Disconnect the check valve of the A side detergent line, leaving the check valve with the A side valve manifold side of the break. Separating the two check valves in this manner will simplify the reassembly process.

Electrical

- Disconnect the A side flow switch electrical connector. Refer to figure 7.
- Disconnect the A side 4 station Mac valve manifold connector.
- Disconnect the A side alcohol/detergent connector.
- Disconnect the A side compressor connector
- Disconnect the spade connector located on the black wire that runs between the A side compressor and the air tank.
- Disconnect the A side disinfection pump connector
- Disconnect the A side drain valve connections.

Mechanical

- Remove the three bolts that secure the A side main module to the unit.
- Slide the A side module out of the unit.

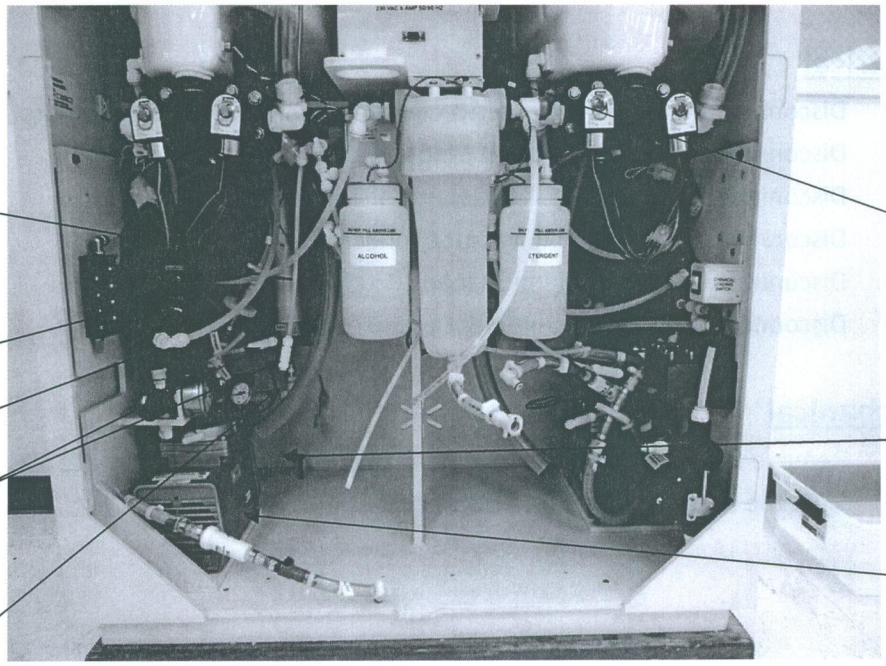


Fig 11

6. Removal of the B side Module

Preparation

- Due to space limitations at many facilities, it may not be possible to remove both sides at the same time. If space limitations dictate the need to work on one side module at a time, proceeded to the next section and return to these instructions when ready to remove the B side module

Hydraulic

- Disconnect the 3/8" air line at the B side 6 station Mac valve manifold. Refer to Figure 12.
- Disconnect the 3/8" tube from the B side flow switch.
- Disconnect the 3/8" tube at the water valve inlet of the B side valve manifold.
- Disconnect the 3/8" tube at the chamber valve inlet of the B side manifold.
- Disconnect the check valve of the B side alcohol line, leaving the check valve with the alcohol reservoir side of the break.
- Disconnect the check valve of the B side detergent line, leaving the check valve with the B side valve manifold side of the break. Separating the two check valves in this manner will simplify the reassembly process. Disconnect the 3/8" tube at the main water valve.

Electrical

- Disconnect the B side flow switch electrical connector. Refer to figure 12.
- Disconnect the B side 6-station Mac valve manifold connector.
- Disconnect the B side alcohol/detergent connector.
- Disconnect the B side compressor connector.
- Disconnect the B side chemical load switch.
- Disconnect the B side disinfectant pump connector.

Mechanical

- Remove the three bolts that secure the B side main module to the unit.
- Slide the B side module out of the unit.

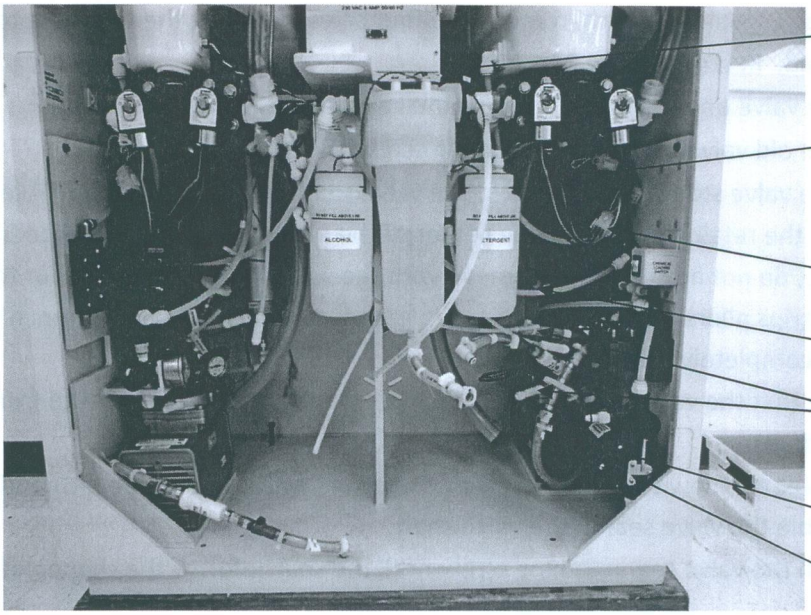


Fig 12

7. Valve Seal Replacement

Parts required

Replacement valve seal kit (4 seals, screws and loctite per pack)

DSD-201 without re-circulation option, requires 3 kits, DSD-201 with re-circulation option required 4 kits.

Tools Required

Allen wrench 9/64”
Allen wrench 3/32”
Valve stem wrench MW03-0002
John Guest Tool 47049-157
Small vise grips or small channel lock pliers

Procedure

- Lay the main module back on the work surface
- Note or label the air hose that connect the Mac valve to the pneumatic block valves.

- Using a ____Allen wrench, remove the four screws holding the top valve to the main manifold. Refer to Figure 13
- Set the valve on the work surface so the valve seal is facing up.
- Pull the old valve seal off the retaining screw. Refer to fig 14
- Use the valve stem wrench to hold the valve shaft and using the 3/32" Allen wrench, loosen the retaining screw in the center of the valve seal. If the screw does not easily release, do not attempted to remove with the wrench. Grip the edges of the screw with a vice grips pliers and unscrew. Once released use the 3/32" Allen wrench to remove the screw completely. Refer to Fig 15
- Ensure that the valve is completely clean; remove any traces of Loctite from the screw mounting area.
- Assemble the new valve seal apply one drop of Loctite to the screw threads and re-assemble the valve seal to the valve shaft.
- Tighten the valve seal retaining screw until the seal deforms the shape. Refer to Figure 16.
- Reattach the block valve to the main manifold. While pressing down on the block valve with your thumb, tighten the screws in a uniform diagonal manner to minimize the deformation. Do not over tighten the screws retaining screws.
- Repeat the above procedure for each valve on the A and B main manifold and the side B station water & disinfectant valve. Refer to figure 17.

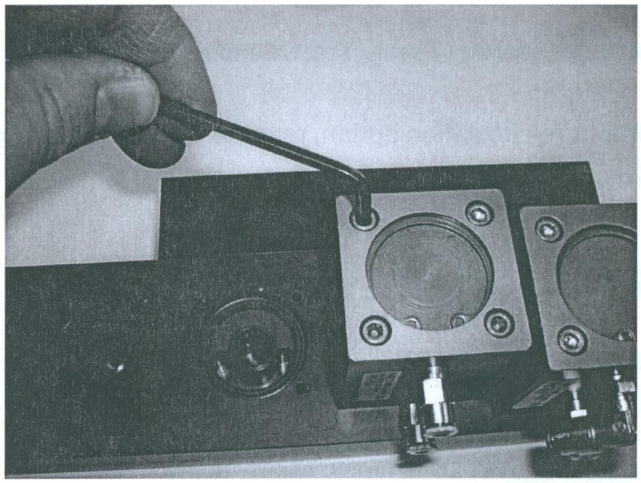


Fig 13

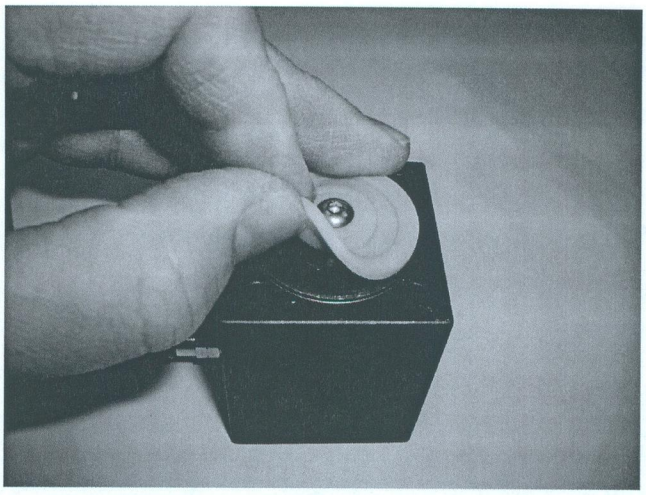


Fig 14

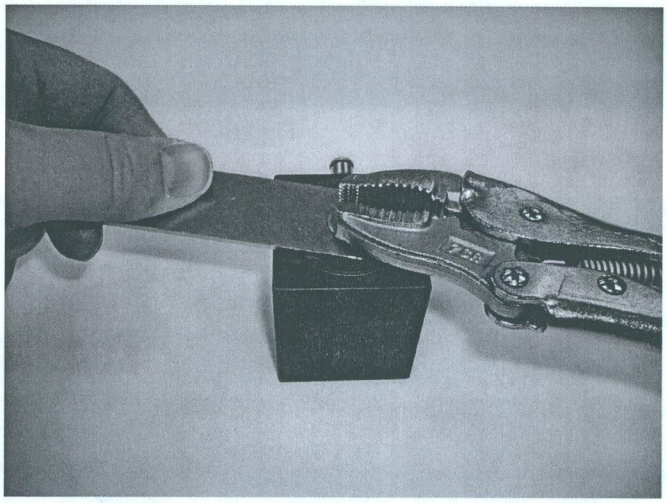


Fig 15

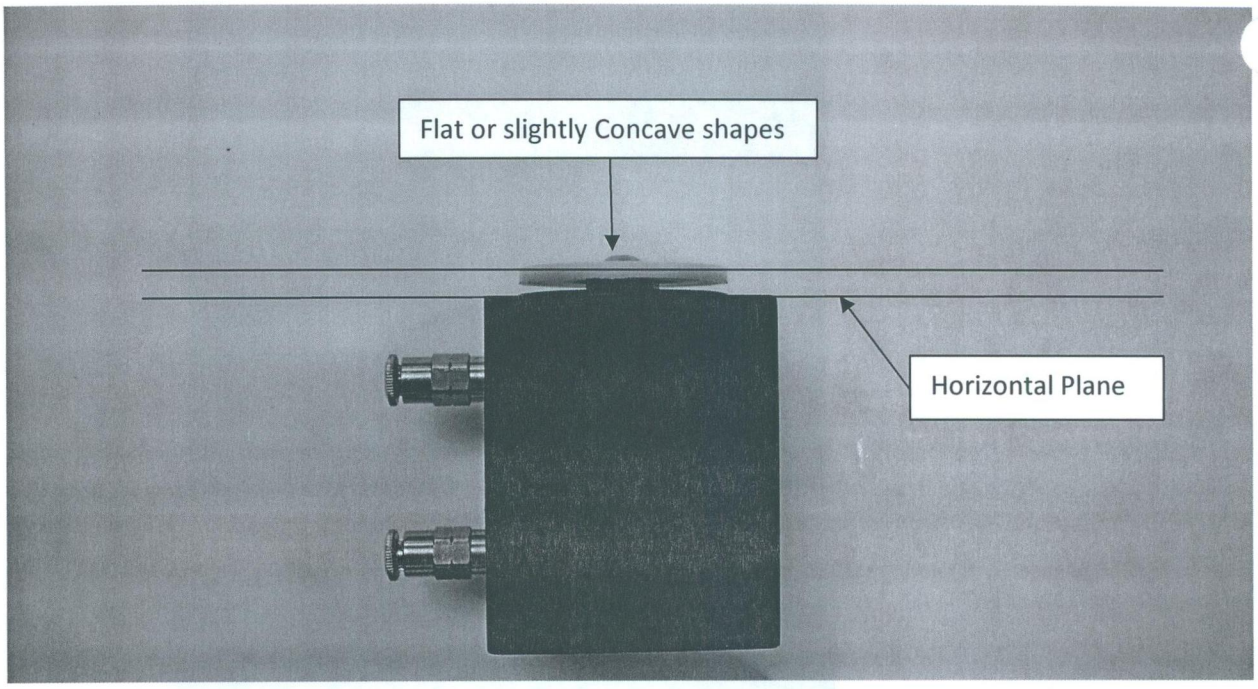


Fig 16

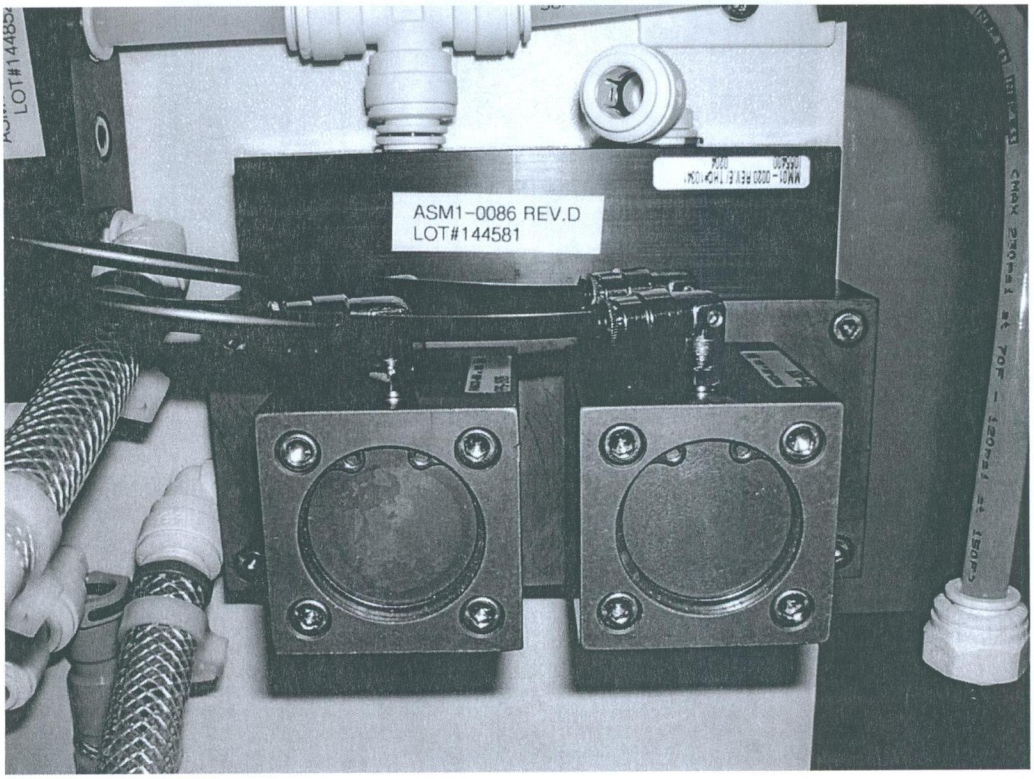


Fig 17 "B" Station Water & Disinfectant manifold

8. Check valve replacement

Each DSD-201 has three check valves located in both the A and B main manifold and two in the B station water and disinfectant valves. Each check valve kit MK01-0068 is comprised of a check valve and two sealing O-rings.

Parts Required

MK01-0068 Qty 8
DSD-201 with recirculation requires 12 check valves.

Tools

____Allen wrench
Silicon Grease

Procedure:

- With the main module on lying on a table, remove the four check valve block retaining screws with a _Allen wrench. Refer to figure 18
- Once all four retaining screws are removed, gently rock the check valve block back and forth gently to release the block with the check valves from the main manifold.
- With the block removed, note the orientation of the check valves. It is imperative the new check valves be reinserted in the same direction.
- Remove the check valve from the check valve block. Remove the O-ring from both ends to the check valve. The O-ring may be found in both the check valve holes on both the check valve block and the main manifold.

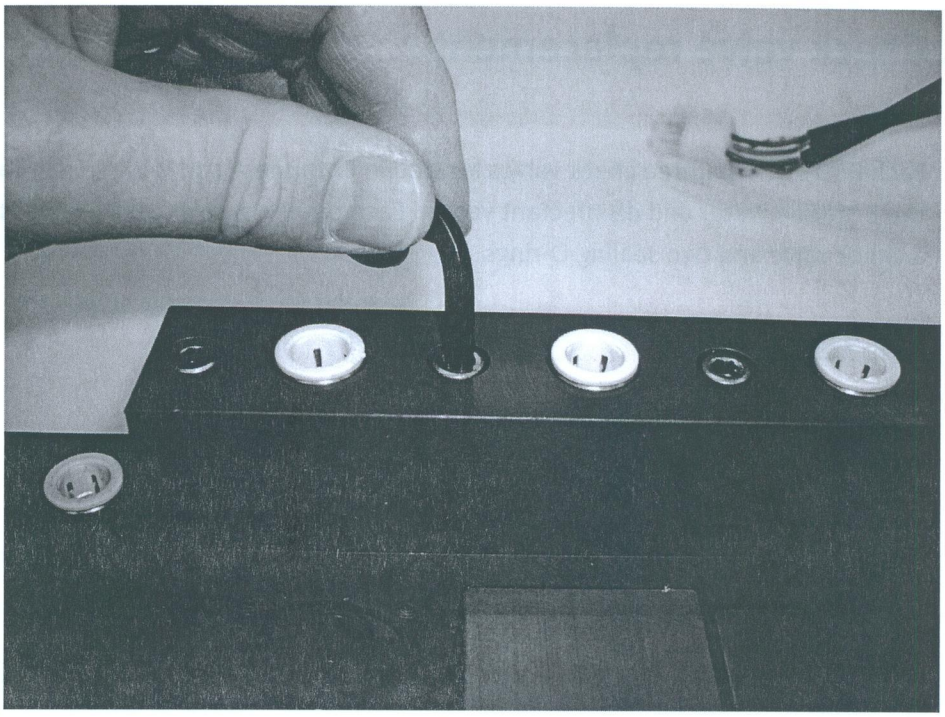


Fig 18

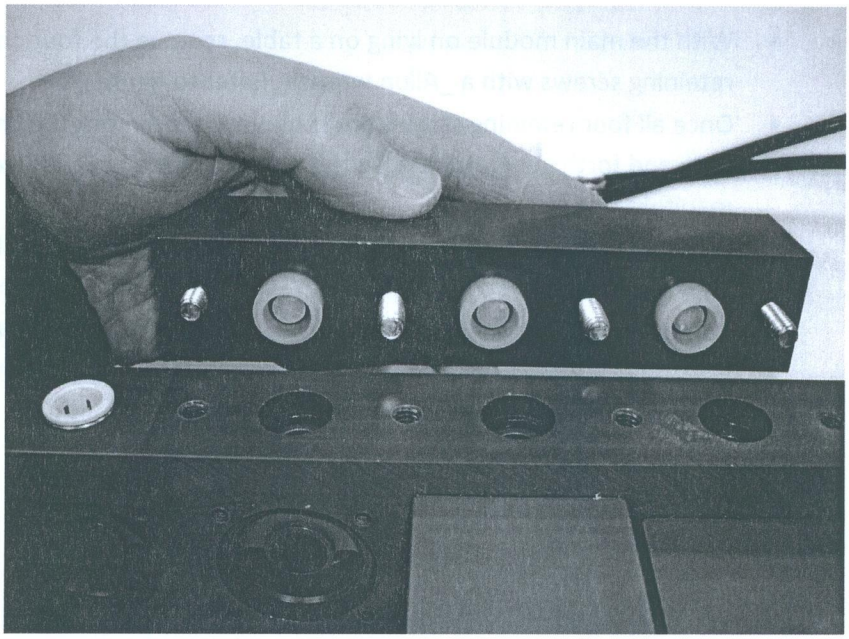


Fig 19

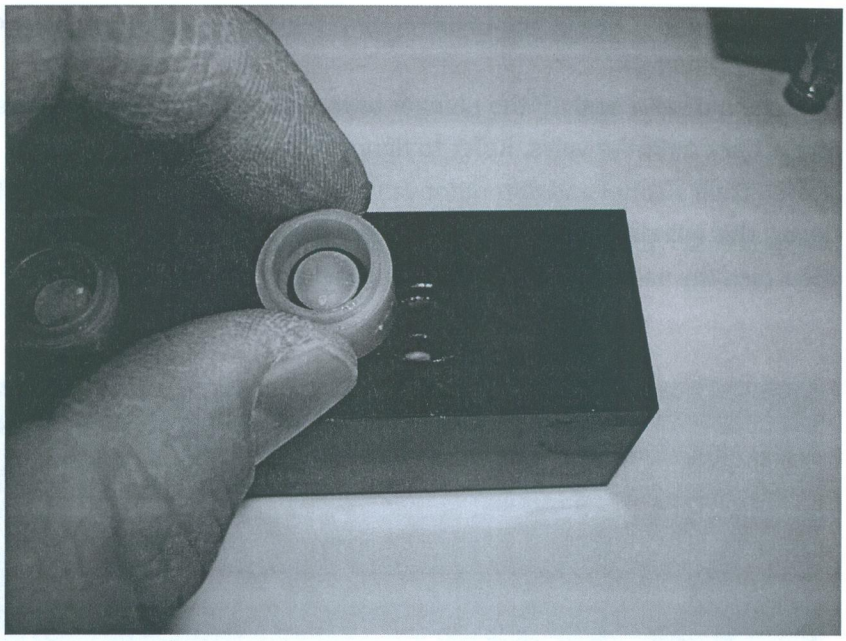


Fig 20

- Insert the new O-rings into check valve retaining hole and the hole on the main manifold. Coating the O-ring with a small amount of silicon grease will allow the check valve to ease into the block easier.
- Insert the check valves into the check valve block, verifying the proper direction. Attach to the main manifold. Insert the four check valve block retaining screws and tighten the four screws in a uniform manner.
- Repeat the procedure for both main module and the "B" station water & disinfectant manifold.

9. Alcohol and Detergent valve seal replacement

Tools:

Small Philips head screw driver
Adjustable wrench

Procedure:

- Remove the large nut on top of the alcohol and detergent valves. Before removing the coil, make note of the position of the coil. Remove the coil by pulling up. Refer to Figure 21. Older DSD-201's will have a spacer washer located between the coil and valve body. Retain this spacer for reassembly.

- Remove the four Phillip head screws from the valve and lift the valve off the manifold. Refer to Figure 22.
- Pull the old valve seal off the plunger of the valve. Obtain a mew valve MV01-0035 and press back onto the valve. Refer to figure 23.
- Note: Each alcohol and detergent valves has a red lever on one side. Do not rotate the lever; this will cause the valve to stay permanently open.
- Reattach the valve body and attach the coil and coil retaining screws.

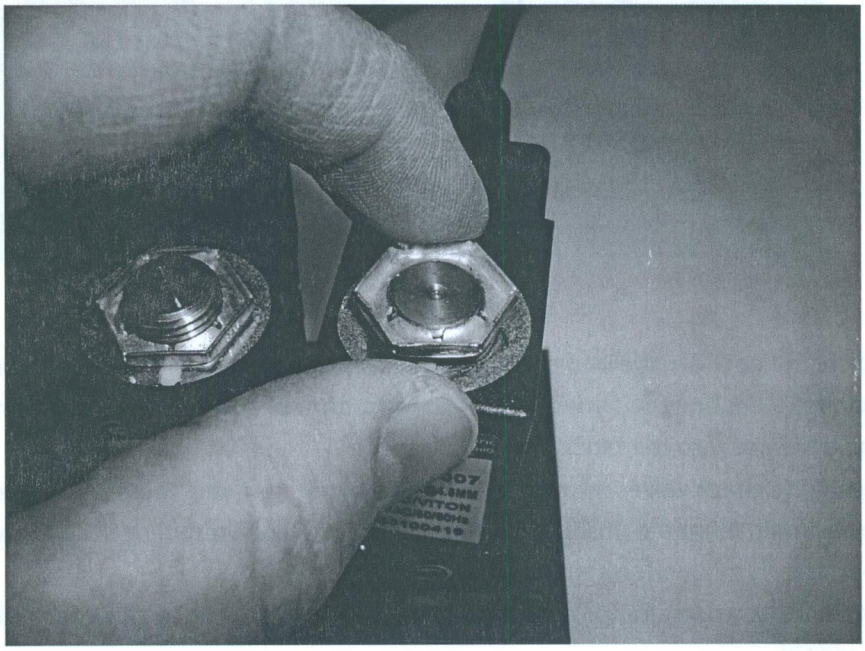


Fig 21

Fig 22

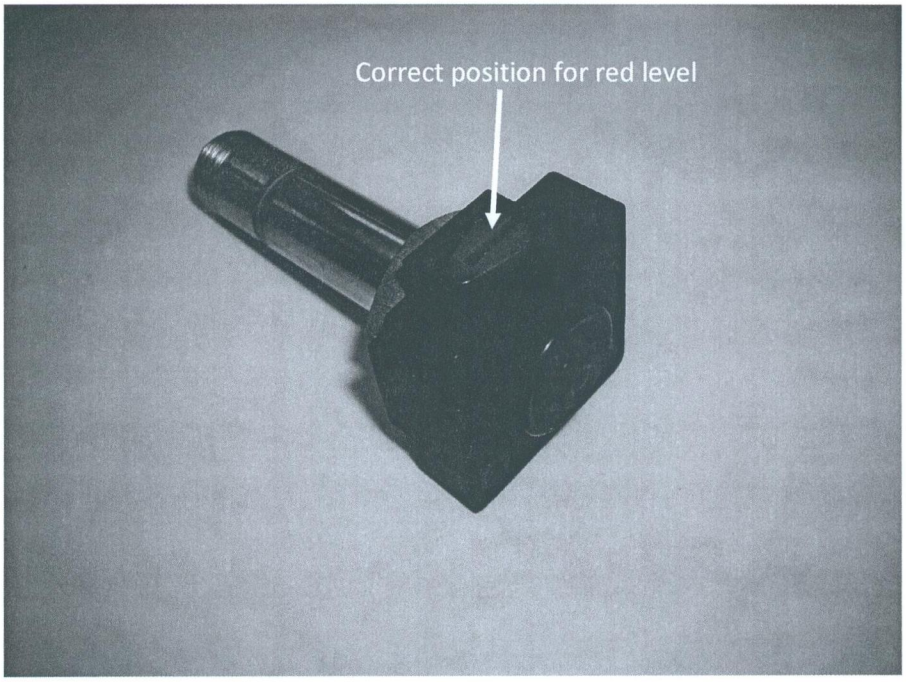


Fig 23

10. Disinfectant Pump Head replacement

Tools required:

Large Phillips screw driver
John Guest tool
Adjustable wrench

Procedure for Side A:

- Disconnect the hose from the top and bottom of the pump head utilizing the John Guest tool. Have a rag or small container ready to capture liquid from the hoses and pump head.
- Refer to figure 24 and remove the three screws that secure the pump head to the motor assembly (retain these screws for attaching the replacement pump head). Remove the pump head. Using an adjustable wrench, remove the two fittings on the input and output of the pump head. These will be reused on the new pump head. Discard the pump head.

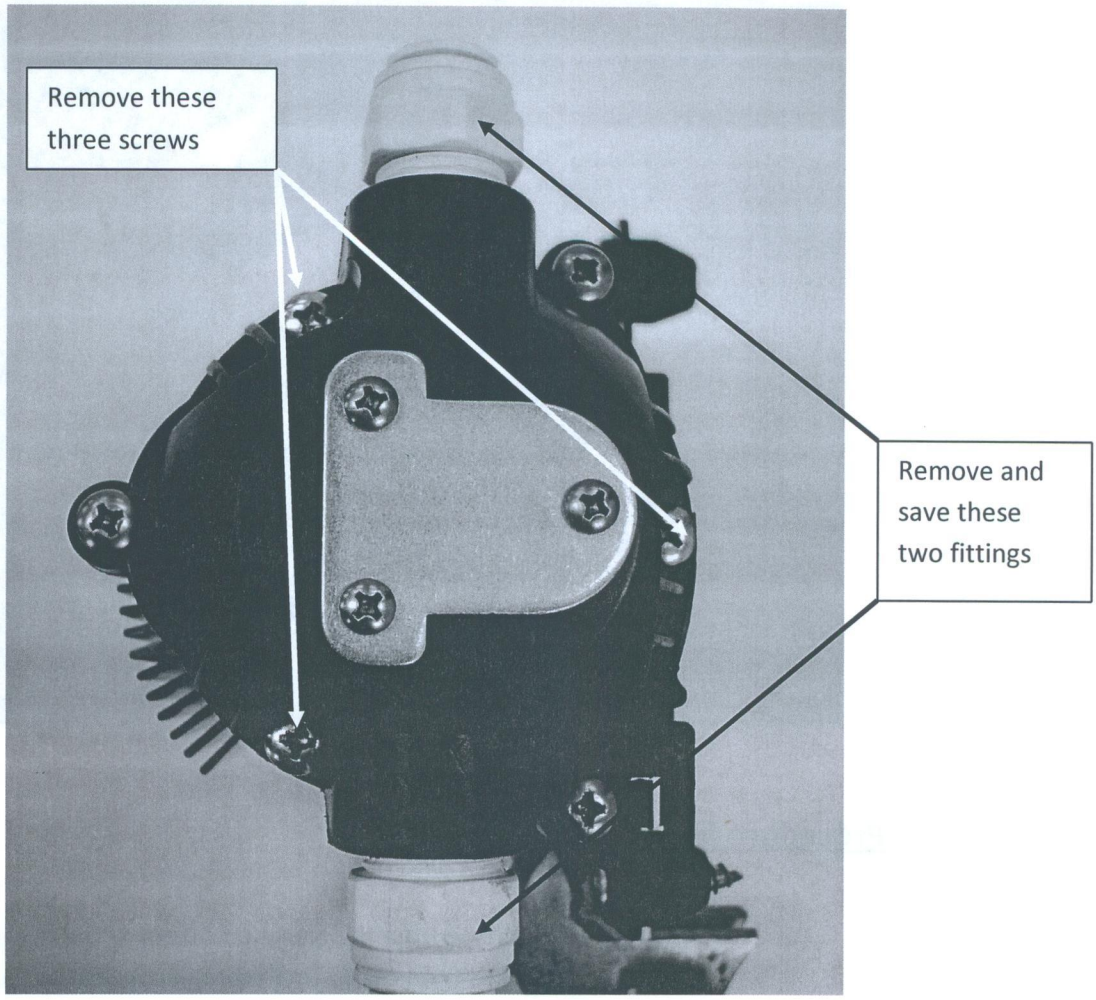
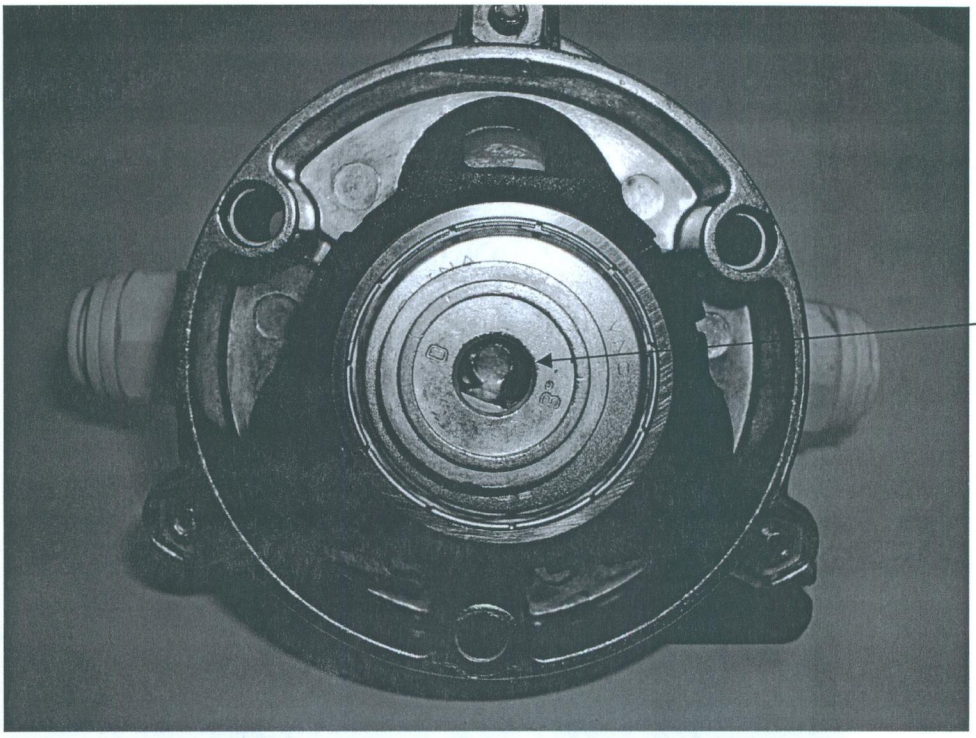


Fig 24

- Unpack the new pump head and fit to the motor assembly using the original three screws. Please note the connection on the pump head that mates with the shaft from the motor is on an eccentric, and will appears to be not centered. Once the screws are tighten, the pump head will line properly with the pump motor. Refer to Figure 25.
- Apply three to four wraps of Teflon tape to the threads of the two connectors removed from the old head. Reattach these fittings to the new pump head.
- Reattach the inlet and outlet hoses to the pump head.



View of the pump head side that mates with the motor.

This part is on an eccentric and will not on center. This is normal for this type of pump head

Fig 25

Procedure for side B:

- Disconnect the hose from the top and bottom of the pump head utilizing the John Guest tool. Have a rag or small container ready to capture liquid from the hoses and pump head.
- Refer to figure 24 and remove the three screws that secure the pump head to the motor assembly (retain these screws for attaching the replacement pump head). Remove the pump head. Using an adjustable wrench, remove the two fittings on the input and output of the pump head. These will be reused on new pump head.
- Rotate the silver handle on the three way valve 90 degrees. Refer to figure 26
- Rotate the three way valve counter clockwise off the top of the pump head. There is a threaded coupling between the pump head and the three way valve that must be retained for use on the new pump head. Remove the coupling from the bottom of the pump head for reuse on the replacement pump head. Discard the pump head. Refer to figure 27.
- Apply three or four wraps of Teflon tape to the threaded coupling and insert in to the top (output) side of the pump head. Apply Teflon tape to both ends of the fitting if necessary.

- Screw the three way valve back on top of the pump head. Return the silver valve handle 90 degrees back to the original position.
- Apply three to four wraps of Teflon tape to the threads of the two connectors removed from the old head. Reattach these fittings to the new pump head.
- Reattach the inlet and outlet hoses to the pump.

Three way valve handle rotated 90 degrees into a position that will allow the valve to be rotated off the pump head.

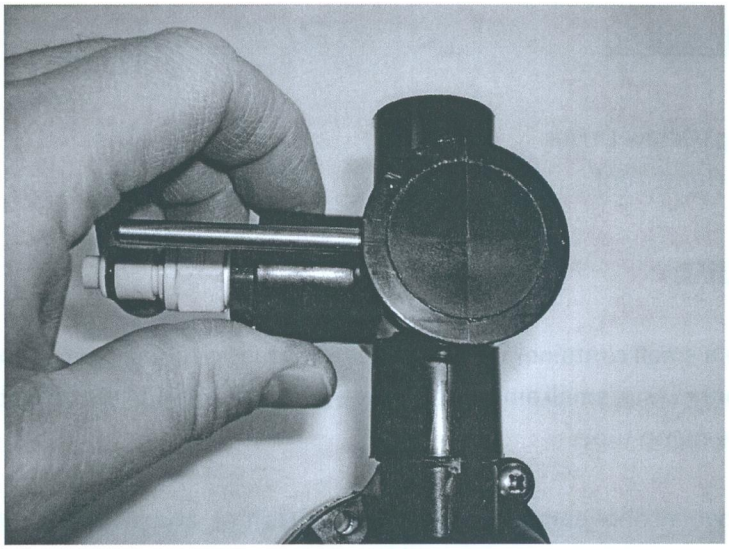


Fig 26

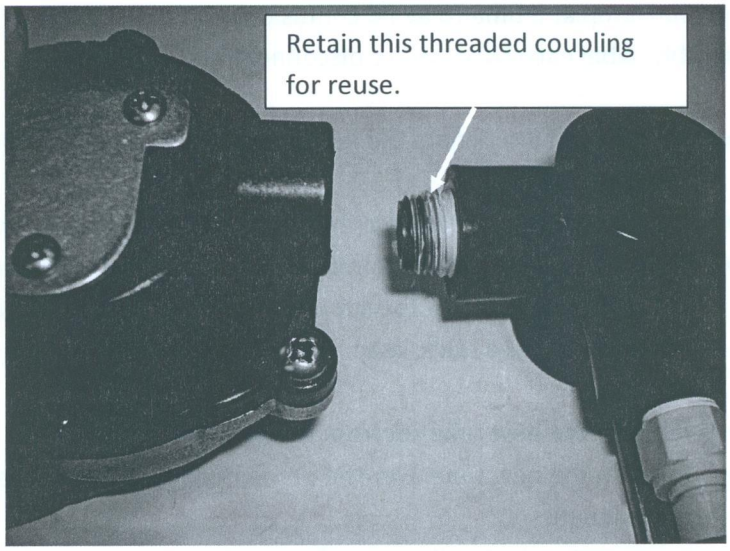


Fig 27

11. Peristaltic Pump Tube Replacement

These instructions should be followed to replace the detergent and alcohol peristaltic pump tubes.

Parts Required

MT01-0500 Peristaltic Tube Set

Tools Required

Phillips Screw Driver
John Guest Tool

Procedure

Place a small container or rags under each of the tubing connections when disconnecting, small amounts of detergent and alcohol will be lost during replacement of the pump tube.

The two alcohol pumps are located to the left of, and just behind the 0.2 micron filter housing which is in the center of the machine. The detergent pumps are located to the right of and just behind the 0.2 micron filter housing. The top pumps on both side supply the "A" side of the machine and the bottom pump supply the "B" side. Replace the tubing one pump at a time to avoid confusion with the plumbing. To assist with reassembly, label each tube before disconnection.

- Identify and disconnect the inlet and outlet tubing from the pump you are servicing.
- Identify and remove four screws from pump covers. Refer to Figure 28.
- Remove cover to expose pump tube. Remove the tubing from the pump hear by pulling the tube out of the support recess, rotate the pinch roller by hand while gently pulling the tube, keep rotating and pulling until the tube is completely released.
- Remove the new tube set from the packaging.
- Position the new tube over the pump head so that the inlet and outlet are of equal length.
- Position the pinch rollers as in figure 29
- Lay the new tube in the recess and rotate the roller as you feed the tube into place until the tube is completely installed. Refer to figure 30.
- Replaced the cover using the screws that were removed earlier.
- Re-connect the inlet and outlet tubes that were disconnected during removal.

- Priming of the pumps will be performed in Section 14.

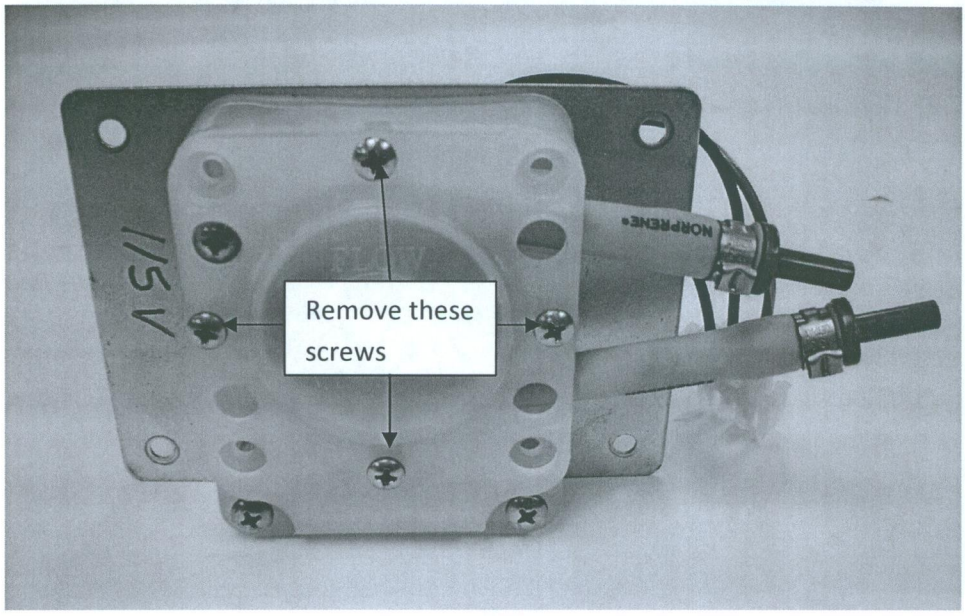


Fig 28

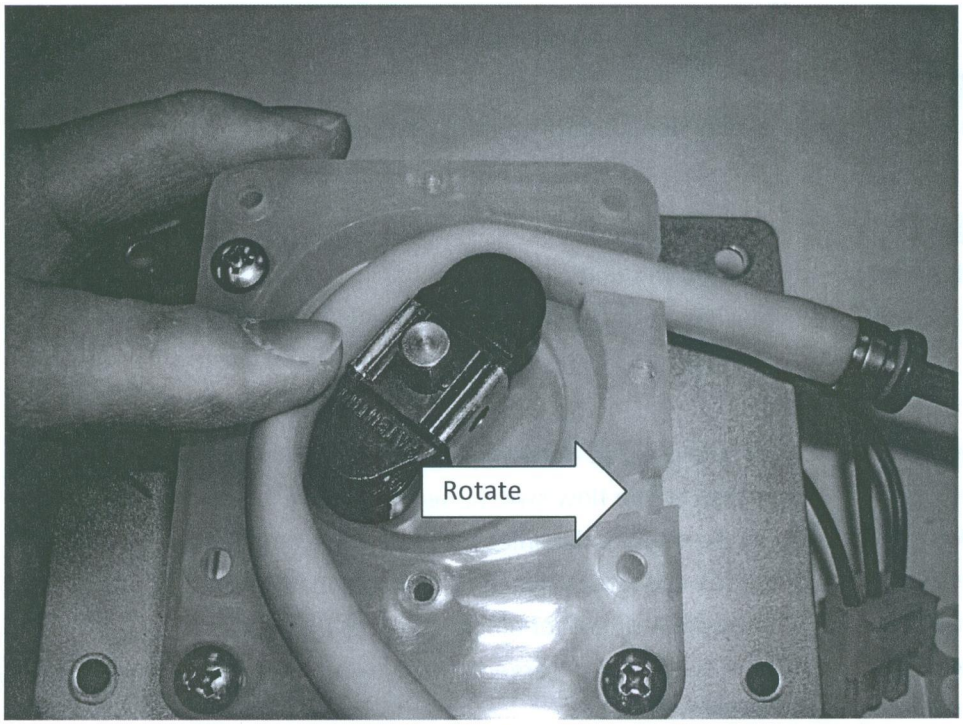


Fig 29

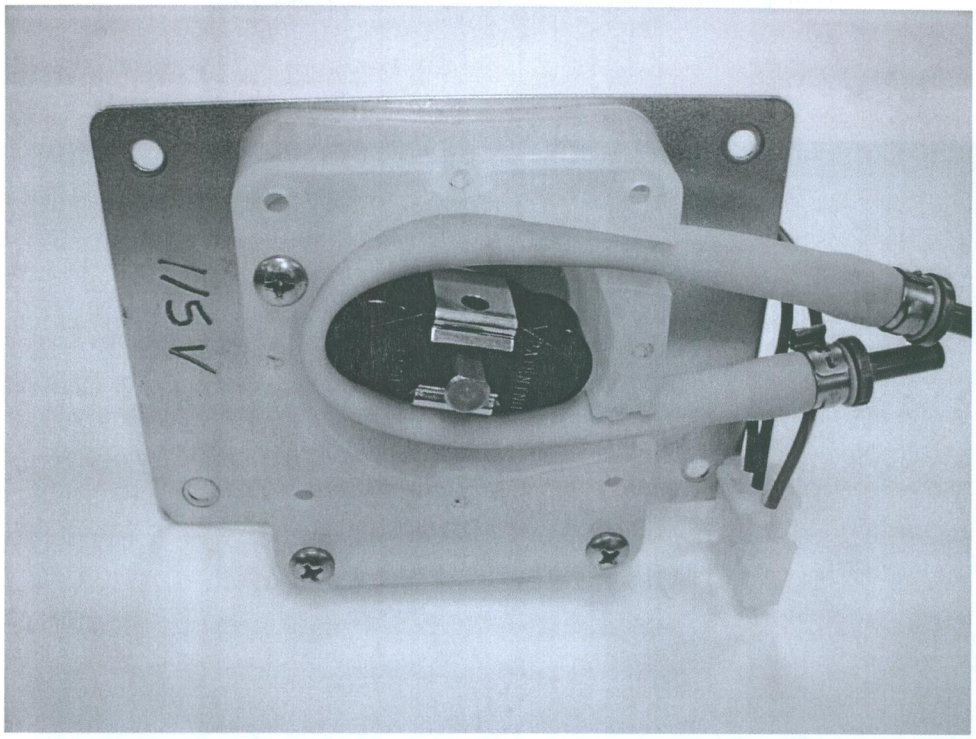


Fig 30

12. Reinstallation of A side Module

Preparation

Verify all work is complete on A side module prior to reinstallation.

Mechanical

- Slide the A side module out of the unit.
- Install the three bolts that secure the A side main module to the unit.

Hydraulic

- Connect the 3/8" air line to the A side 4 station Mac valve manifold. Refer to figure 31.
- Connect the 3/8" tube to the A side flow switch. Refer to figure 31.
- Connect the 3/8" tube to the water valve inlet to A side valve manifold.
- Connect the 3/8" tube to the chamber valve inlet of A side manifold.
- Connect the check valve of the A side alcohol line. Refer to figure 31.
- Connect the check valve of the A side detergent line, leaving the check valve with the A side valve manifold side of the break.

Electrical

- Connect the A side flow switch electrical connector. Refer to figure 31.

- Connect the A side 4 station Mac valve manifold connector.
- Connect the A side alcohol/detergent connector.
- Reconnect the A side compressor connector
- Connect the spade connector located on the black wire that runs between the A side compressor and the air tank.
- Connect the A side disinfection pump connector
- Connect the A side drain valve connections.

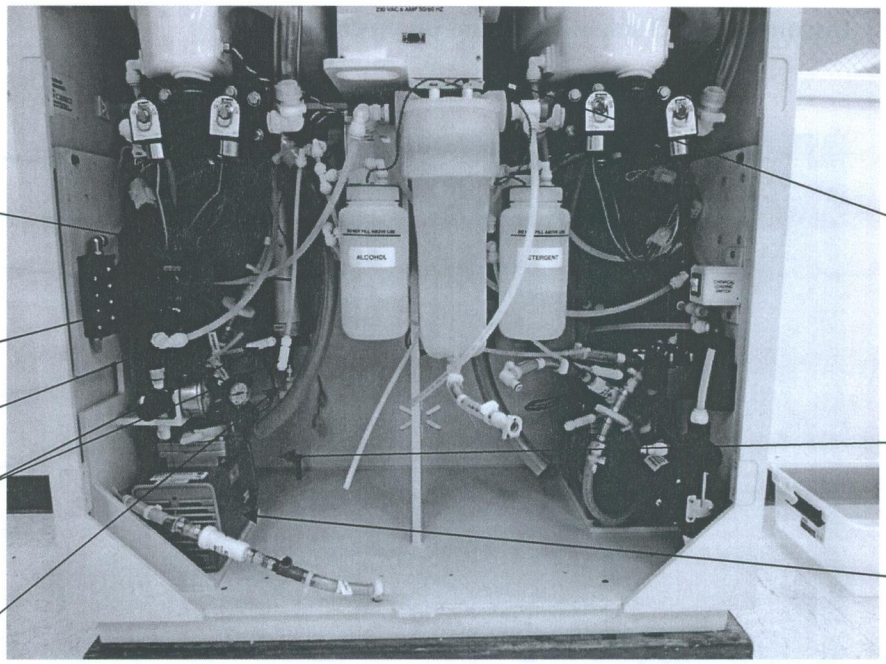


Fig 31

13. Reinstallation of B side Module

Mechanical

- Slide the B side module into the unit.
- Insert and tighten the three bolts that secure the B side main module to the unit

Hydraulic

- Reconnect the 3/8" air line at the B side 6 station Mac valve manifold. Refer to Figure 32.
- Connect the 3/8" tube to the B side flow switch. Refer to Figure 32.
  Connect the 3/8" tube to the water valve inlet of the B side valve manifold.
- Connect the 3/8" tube to the chamber valve inlet of the B side manifold.
- Connect the check valve of the B side alcohol line. Refer to Figure 32.
- Connect the check valve of the B side detergent line.

- Connect the 3/8" tube at the main water valve.

Electrical

- Disconnect the B side flow switch electrical connector. Refer to figure 32.
- Disconnect the B side 6-station Mac valve manifold connector.
- Disconnect the B side alcohol/detergent connector.
- Disconnect the B side compressor connector. Refer to figure 32.
- Disconnect the B side chemical load switch.
- Disconnect the B side disinfectant pump connector.

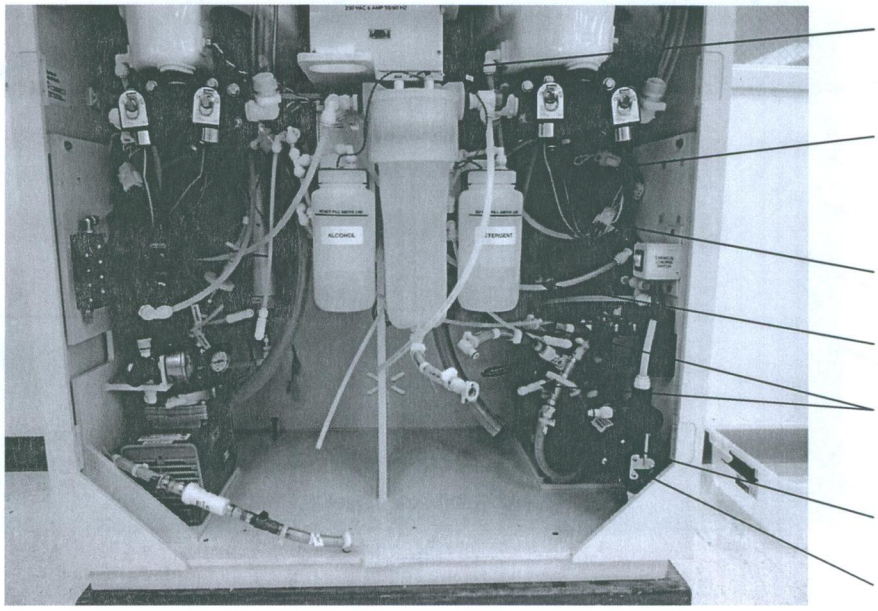


Fig 12

14. Final checks.

Procedure:

Plug the DSD-201 power cord back into the power outlet. Ensure that the machine powers up correctly and is in an idle state. Note: the unit is in the idle state when the Station A and Station B yellow LED indicators above and below the LCD display are not illuminated.

- Open the incoming water supply valve.
- Place a restrictor adaptor into each basin.

- Fill the reservoirs with the disinfectant using setup 1. Refer to the use manual for instructions.

A. The next steps will be performed once the unit is completely reassembled. Open the appropriate valve (detergent or alcohol) for the side of the machine you are working on. Using diagnostics run the appropriate pump to prime the system. Continue running the pump until fluid appears from the scope hook up or restrictor. Once fully primed, turn off the pump and close the valves. Repeat the above process for the three remaining pumps.

B. Activating Side A Alcohol pump:
   - Select Station A.
   - Enter diagnostics by pressing **88, ENTER**. Input code **135, ENTER**. Open the alcohol valve by pressing **12, ENTER**, **18, ENTER.** Then turn the pump on by entering 3, **ENTER**. Once fluid is seen coming out of the restrictor, press **0, Enter** to deactivate the pump and valve.

C. Activating Side A Detergent pump:
   - While still in diagnostics press **1, ENTER**, which opens the valve, then **18, Enter.** Activate the pump by pressing **19, ENTER.** Once detergent is seen flowing from the restrictor, turn off the pump and valves by pressing **0, ENTER.**

D. Activating Side B Alcohol pump:
   - Select Station B.
   - Enter diagnostics by pressing **88, ENTER**. Input code **135, ENTER**. Open the alcohol valve by pressing **12, ENTER**, **18, ENTER.** Then turn the pump on by entering 3, **ENTER**. Once fluid is seen coming out of the restrictor, press **0, Enter** to deactivate the pump and valve.

E. Activating Side B Detergent pump:
   - While still in diagnostics press **1, ENTER**, which opens the valve, then **18, Enter.** Activate the pump by pressing **19, ENTER.** Once detergent is seen flowing from the restrictor, turn off the pump and valves by pressing **0, ENTER.**
   - Press **14, ENTER** to open the B side main water valve. Exit diagnostics by pressing **CACNEL** twice.

F. Commence a cycle on both sides, performing the following. Refer to the service manual for set up and diagnostics menus.
   - Cycle parameters are adjusted to appropriate settings.
   - Sensors are set and working properly.
   - Proper operation of the cycle.
   - No leaks occur during the disinfectant cycle.
   - No leaks occur during the rinse cycle.
   - The external water pressure during the flush mode meets the installation requirements, (35-40 PSI).
   - The alcohol and detergent solutions are injected as desired. REFER TO SECTION
   - The basins fill to the appropriate level during the disinfectant and rinse phases.

- No excessive noise, fumes or orders are noted.
- When the disinfectant cycle begins, press the TEST button on the GFI outlet which is located on the inside back wall of the cabinet and has the printer transformer plugged into it. Wait five seconds, and then depress the RESET button on the GFI in order to re-apply AC power. The DSD should resume the Disinfectant cycle from the step where it had stopped.

b. Ensure that the DSD completes one full disinfection cycle without any alarms.
c. During the cycle, ensure that there are no leaks inside the unit and bleed any air from the housing using the bleeder valve.
d. Check the accuracy of the LCG display for date and time. If incorrect, reset the valves using SETUP, 2, ENTER (for the date) and SETUP, 3, ENTER (for time).
e. Clean any fluid or residue from the cabinet assembly.